AMSAT News Service Weekly Bulletins
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SB SAT @ AMSAT $ANS-075.01
SECOND CALL FOR PAPERS

HR AMSAT NEWS SERVICE BULLETIN 075.01 FROM AMSAT HQ
SILVER SPRING, MD, MARCH 16, 1997
TO ALL RADIO AMATEURS BT
BID: $ANS-075.01

The 1997 Amsat-NA annual meeting and space symposium will be held October 17-19 1997 at the Airport Delta Hotel in Toronto, Ontario Canada.

This is the Second Call for Papers - Those who wish to present papers at this event, should forward their request together with a title by April 1 1997. Topics may include all relevant Amateur Satellite disciplines.

Abstracts are required by June 1 1997 with final versions by August 1 1997 (so that they may be printed in the proceedings).

We also encourage those not able to attend to send papers for inclusion in the proceedings of the symposium

Submissions and esquires should be made to:-

Wayne Chandler, VE3WHC

by internet: ve3whc@amsat.org (apologies to those who tried and could not get in earlier)
By Mail Wayne Chandler
        Box 6, Carlisle, Ontario
        Canada. L0R 1H0

[ANS thanks Wayne Chandler, VE3WHC, for this information.]

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SB SAT @ AMSAT $ANS-075.02
AMSAT-UK 12TH COLLOQUIUM

HR AMSAT NEWS SERVICE BULLETIN 075.02 FROM AMSAT HQ
SILVER SPRING, MD, MARCH 16, 1997
TO ALL RADIO AMATEURS BT
BID: $ANS-075.02

The 12th AMSAT-UK Colloquium will be held at Surrey University, Guildford, Surrey, U.K., from Friday 25th to Sunday 27th July 1997. This year's event will comprise three days of technical and operational matters only; there will be NO "political" subjects.

Amsat-UK invites authors to submit papers, about amateur radio space and associated activities, for this event and for the "Proceedings" document which will be published at the same time. It is normally preferred that authors present the papers themselves rather than having someone else read them in the authors' absence, but AMSAT-UK also welcomes "unpresented" papers for the document.

Abstracts of Papers should be submitted as soon as possible; the final date for acceptance has not yet been finalized but is likely to be 15 June 1997

in order that the "Proceedings" document be available to participants.

Submissions should be sent *ONLY* to G3RWL, via the following routes:

Internet e-mail: g3rwl@amsat.org
Packet Radio: G3RWL @ GB7HSN.#32.GBR.EU
Satellite: AO16/19/22/23/25
Terrestrial mail: R W L Limebear G3RWL
60 Willow Road
Enfield EN1 3NQ
United Kingdom.

AMSAT-UK also invites anyone with requests for Program Topics (and possible authors) to submit them as soon as possible to G3RWL as above. Invitations for papers on specific subjects will be included in the final call, at the end of April.

Information about the Colloquium will shortly be available on the World Wide Web pages at the University of Surrey on:
http://www.ee.surrey.ac.uk/CSER/UOSAT/amateur/colloq97.html

A change to the booking requirements has been made this year] such that AMSAT-UK will accept unregistered day attendees subject to space, but they will not receive a free lunch. As usual, facilities will be available for attendees who wish to arrive at UoS on the evening before the event starts.

This year a healthy coverage of microwave-related material pertinent to the advent of the P3D satellite will be presented, and that there will be microwave test equipment available on the Friday evening for people to check
their home projects. Availability of application forms to attend the Colloquium will be publicized later in the year.

NOTE: All other inquiries about colloquium-97 should be sent] to the AMSAT-UK
office: AMSAT-UK London e12 5EQ

[ANS thanks Richard Limebear, G3RWL, Colloquium Program organizer for this news item.]

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SB SAT @ AMSAT $ANS-075.03
MIR MISSION UPDATE

HR AMSAT NEWS SERVICE BULLETIN 075.03 FROM AMSAT HQ
SILVER SPRING, MD, MARCH 16, 1997
TO ALL RADIO AMATEURS BT
BID: $ANS-075.03

U.S. astronaut Jerry Linenger, KC5HBR, has reached the halfway point of his mission aboard the Russian space station Mir, today is his 62nd day in space. For his two Russian crew members, its their 33rd day.
The primary oxygen generation system has been off-line for a week now. The Electron system shut itself down last week due to excess build up of air. Both Electron systems are having problems, Electron 2, which was their primary system has a filter bypass problem, some spare parts will be coming up on the next Progress cargo ship. Electron 1, in the Kvant 1 module is having pump problems. Spare parts are a problem, but some are being manufactured right now.

Scheduled Activities

Apr 6- (TENTATIVE) Progress M-34 Launch.

Apr 8- (TENTATIVE) Progress M-34 docking.

[ANS thanks Keith Stein for this story.]

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SB SAT @ AMSAT $ANS-075.04
RS-16 LATEST

HR AMSAT NEWS SERVICE BULLETIN 075.04 FROM AMSAT HQ
SILVER SPRING, MD, MARCH 16, 1997
TO ALL RADIO AMATEURS BT
BID: $ANS-075.04

B.J. Arts, WT0N, reports that during the March, 14th, 1740 UTC pass over North America, RS-16's 10 meter, 29.408 , 29.451 MHz, beacons were not heard. The 70 cm, 435.504 MHz and 435.548 MHz, beacons were active at that time. The 435.504 MHz beacon was very strong, an S-9. The 435.548 beacon was very weak, an S-1. WT0N tried the passband on 2 meters, 145.915 - 145.948 MHz, and listened on 10 meters, 29.415 - 29.448 MHz . He did not hear his downlink signal and assumes that the transponder is not yet active.

Here is the example of 435 MHz CW telemetry, received by UA3CR on the 12.03.97 orbit number 134, over Moscow.
Below are some important parameters:

RS16 RS16
P160 PSU voltage (16.0 Volts)
O0 Solar panel voltage
N0 Solar panel current
M0
L16
K92
J5
I7
H49
G0
F156
E10 Temperature inside 1 in C deg.
D12 Temperature inside 2 in C deg.
C12 Temperature inside 3 in C deg.
B11 Temperature inside 4 in C deg.
A9 Temperature inside 5 in C deg.

[ANS thanks Richard W L Limebear, G3RWL, and B.J. Arts, WT0N, for these reports..]

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SB SAT @ AMSAT $ANS-075.06
WEEKLY SATELLITE REPORT PT 1

HR AMSAT NEWS SERVICE BULLETIN 075.06 FROM AMSAT HQ
SILVER SPRING, MD, MARCH 16, 1997
TO ALL RADIO AMATEURS BT
BID: $ANS-075.06

MIR:
(New frequencies implemented 1 January 1997:
Uplink 145.2 MHz FM
Downlink 145.8MHz FM)
Note, the above split is used for both packet and voice operation.

SAFEX, MIR 70cm Repeater
(Uplink 435.750MHz FM, Downlink 437.950MHz FM,
Subaudible tone 141.3 Hz)
The repeater operational and active..

RS-10:
(Uplink 145.865-145.905MHz CW/SSB, Downlink 29.36-29.4MHz CW/SSB)
RS-10 has strong downlink signals.
[ANS thanks Mark Herrick, KL0AD, for this report.]

RS-12:
(Uplink 21.21-21.25MHz CW/SSB, Downlink 29.41-29.45MHz or
145.91-145.95Mhz CW/SSB)
The sat continues to provide excellent downlink signals in both T-
and K-mode.
[ANS thanks Dick Montgomery, N3DV, for this update.]

RS-15
(Uplink 145.858-145.898MHz CW/SSB, Downlink 29.354-29.394MHz CW/SSB)
RS-15 was a little weak on the downlink and the satellite spin puts a twist
in, but you can time the important exchanges around that "null".
[ANS thanks Mark Herrick, KL0AD, for this report.]

Be aware that RS-15 has battery charging problems. When the satellite is
in the dark it has low output power..
[ANS thanks Geoff Perry for this report.]
(Hint: If SSB doesn't work for you, try CW. CW is very easy
to hear on the downlink!)

RS-16
RS-16's 70 cm, 435.504 Mhz beacon on RS-16 operational. The 10 meter beacon
is not active at this time. Transponder is not operational.
RS-16
1 24744U 97010A   97066.14889668 .00002139 00000-0 74153-4 0   367
2 24744 97.2814 333.1163 0009586 91.5327 268.6998 15.30875098   474

FO-20
(Uplink 145.9-146.0MHz CW/LSB, Downlink 435.8-435.9MHz CW/USB)
Operating normally. Strong downlink signal.

KO-23
(Uplink 145.85, 145.9MHz FM, Downlink 435.175MHz FM,
9600 Baud FSK.)
KO-23 operating normally.

KO-25:
(Uplink 145.87MHz FM, Downlink 436.5MHz FM,
9600 Baud FSK.)
KO-25 operating normally.
[ANS thanks Jim Weisenberger, AA7KC, for his reports on
KO-25 and KO-23.]

AO-27:
(Uplink 145.85MHz FM, Downlink 436.8MHz FM)
Operating normally and lots of activity heard over
North America and Europe.
As of NOV 2, the AO-27 schedule is as follows:
  TEPR 4 = 16 = 8 Minutes in Length
  TEPR 5 = 52 = 18 Minutes in Length

  TX-3 is on Mid Power during TEPR 5.

This will have the TX turn on 8 Minutes after the satellite
enters the sun for a duration of 18 Minutes. This is a "back to US

Latitudes"operation.

N4USI, AO-27's current Command Station sends his thanks all for their messages about the satellite turning on later than expected. He reports he's deliberately letting the "turn on" time drift later (for about 4-5 Minutes) so stations in the southern latitudes can also have a chance to work AO-27. Every few months he will be letting the turn on time drift like this to give more stations a chance to make contacts thru the satellite.
[ANS thanks Michael Wyrick, N4USI, AO-27 Control-op, and Miguel A. Menendez, EA1BCU, for this update.]

FO-29
Voice/CW
(Uplink 145.9-146.0MHz CW/LSB, Downlink 435.8-435.9MHz CW/USB)
Digital
(Uplink 145.85, 145.87, 145.910 MHz FM, Downlink 435.910 MHz FM 9600 baud BPSK)
FO-29 is in Analog mode at the current time.
The latest FO-29 Schedule can be found at.
http://www.kt.rim.or.jp/~jr1nvu/eindex.html
03/14/97 01:05 utc JA
03/21/97 00:00 utc JD 1200 bps PSK
03/28/97 10:45 utc Digi-Talker
04/01/97 00:30 utc JD 9600 bps FSK

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SB SAT @ AMSAT $ANS-075.07
WEEKLY SATELLITE REPORT PT 2

HR AMSAT NEWS SERVICE BULLETIN 075.07 FROM AMSAT HQ
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AO-10:
(Uplink 435.030-435.18MHz CW/LSB, Downlink 145.975-145.825MHz CW/USB)
AO-10
Participants in the Amsat-UK Central England VHF Net reported good results on AO-10. Malcom G7NFO had worked some interesting "DX" including TR8CA, PP8KWA,ZS2BWB and PY0FF.
[ANS thanks John Heath, G7HIA, Net Controller, for this report.]

Updated Keps for AO-10 are as follows:
1 14129U 83058B 97054.50000000 .00000010 00000-0 57107-5 0 5005
2 14129 25.8792 163.0281 6052907 93.3854 313.1701 2.05882272103000
[ANS thanks Ken Ernandes, N2WWD, for the updated keps.]

OSCAR-11
(Downlink 145.825MHz. FM, 1200 Baud PSK)
.The last month (14 January - 17 February) has been uneventful for OSCAR-11. Good, steady signals have been received from the 145.826 MHz. beacon. Mirek, OK2AOK reports hearing the mode-S beacon on January 25th. The signals peaked at S6 on a pass when the maximum elevation was 21 degrees.
[ANS thanks Clive Wallis, G3CWV, and Richard W L Limebear, G3RWL, for this information.]

AMSAT-OSCAR-16 (PACSAT)
(Uplink 145.9, 145.92, 145.94, 145.86MHz FM, Downlink 437.0513MHz SSB, 1200 Baud PSK.)
PACSAT (AO-16)

It is working normally in its orbits on Europe.
1200 bps Manchester FSK modulation used on Uplinks.
1200 bps RC-BPSK-TX modulation used on Downlink. (+/- 10 KHz Doppler correction). Graphic information about WOD/Telemetry values can find it in:
http://www.arrakis.es/~ea1bcu/ao16.htm
[ANS thanks Miguel A. Menendez, EA1BCU, for this report.]

DO-17(DOVE)
(Downlink 145.825MHz FM, 1200 Baud AFSK.)
No changes reported during last few weeks

WEBERSAT (WO-18)
(Downlink 437.104MHz SSB, 1200 Baud PSK AX.25.)
Webersat (WO-18) is currently in MBL mode after last weeks system crash. The satellite appears to be in good condition broadcasting MBL telemetry.

BCRi316.43mA bplt 1.340C TxPw 0.231W 5 V 5.742V 8.5V10.008V 10V 14.036V
[ANS thanks Tommy Davis, IK3WVJ, for this report.]

LUSAT-OSCAR-19
(Uplink 145.84, 145.86, 145.88, 145.9 MHz FM, Downlink 437.1528 MHz SSB, 1200 Baud PSK AX.25.)
LUSAT (LO-19) is working excellently in its orbits on Europe.
1200 bps Manchester FSK modulation used on Uplinks.
1200 bps RC-BPSK-TX modulation used on Downlink.
<Beacon>
22 de Enero de 1997.
!7 years !
Gracias a todos los amigos que lo hicieron posible.
Amsat - LU8DYF
[ANS thanks Miguel A. Menendez, EA1BCU, for this report.]

IO-26 (ITAMSAT):
(Uplink 145.875, 145.9, 145.925, 145.95MHz FM, Downlink 435.822MHz SSB, 1200 Baud PSK.)
IO-26 controllers report that the spacecraft is now in IHT mode. The new ROBOT software is under currently undergoing tests. The beacon reports that the digipeater is OFF and that the ROBOT is undergoing tests. Controllers ask that groundstations please do not transmit on any of the satellite's uplink frequencies for the time being.
[ANS thanks Daniele Piercarlo, IK2XRO, ITMSAT Command Station for this report.]

[Please send your Satellite or News reports to ANS Editor B.J. Arts, WT0N, via e-mail, at bjarts@uslink.net or to wt0n@amsat.org]

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BJ Arts
WT0N in EN-37, ARMY MARS AAR5EL
Hibbing, Minnesota. U.S.A.
e-mail bjarts@uslink.net or wt0n@amsat.org
Amsat News Service Bulletin Editor